

What is claimed is:

1 1. A digital broadcast receiving device that receives a  
2 broadcast wave including interactive data to achieve pseudo-  
3 interactive communications, the interactive data being  
4 repeatedly broadcasted, the digital broadcast receiving  
5 device comprising:

6 receiving means for receiving the broadcast wave;

7 judging means for judging a state that is established  
8 during the reception of the broadcast wave based on first  
9 information, the state being one of a preview state, a  
10 prohibited state, and a permitted state,

11 wherein the first information shows conditions for  
12 using the received broadcast wave under a subscription  
13 contract,

14 wherein in the preview state, the received broadcast  
15 wave is permitted to be used regardless of the subscription  
16 contract being made, and

17 wherein in the prohibited state, the broadcast wave  
18 is prohibited from being used because the subscription  
19 contract is not made; and

20 restricting means for restricting use of the  
21 interactive data when either the preview state or the  
22 prohibited state is judged as being established.

1 2. The digital broadcast receiving device of Claim 1,

2 wherein the broadcast wave also includes second  
3 information which shows conditions for using the broadcast

4 wave,

5 wherein the first information is recorded on a  
6 recording medium,

7 wherein the judging means includes:

8 obtaining means for obtaining the first information  
9 from the recording medium;

10 contract judging means for judging whether the first  
11 information and the second information are the same,  
12 determining that the subscription contract is made on judging  
13 that the first and second information are the same, and  
14 determining that the subscription contract is not made on  
15 judging that the first and second information are not the  
16 same; and

17 preview state judging means for (a) judging whether a  
18 predetermined period has passed since a start of the  
19 reception of the broadcast wave if the contract judging means  
20 determines that the subscription contract is made, (b)  
21 determining that the preview state is established during the  
22 reception on judging that the predetermined period has not  
23 passed, and (c) determining that the prohibited state is  
24 established during the reception on judging that the  
25 predetermined period has already passed.

1 3. The digital broadcast receiving device of Claim 2,

2 wherein the interactive data contains a plurality of  
3 sets of presentation data and link information which  
4 associates each of the plurality of sets of presentation data

5 with a link to a set of presentation data,  
6 wherein one of the plurality of sets of presentation  
7 data is currently presented,  
8 wherein the restricting means includes:  
9 user input receiving means for receiving a user  
10 operation relating to the presented set of presentation data;  
11 link means for (a) specifying, based on the received  
12 user operation, a set of presentation data that is a link  
13 destination of a link associated by the link information with  
14 the presented set of presentation data if either the preview  
15 state or the prohibited state is judged as being established,  
16 (b) judging whether the specified set of presentation data  
17 and the presented set of presentation data are included in a  
18 same group, (c) obtaining the specified set of presentation  
19 data on judging that the specified set of presentation data  
20 and the presented set of presentation data are included in  
21 the same group, and (d) restricting use of interactive data  
22 relating to the received user operation on judging that the  
23 specified set of presentation data and the presented set of  
24 presentation data are not included in the same group; and  
25 presenting means for presenting the obtained set of  
26 presentation data.

1 4. The digital broadcast receiving device of Claim 3,  
2 wherein the broadcast wave is composed of a plurality  
3 of components, and at least two components out of the  
4 plurality of components each include a plurality of sets of

5 presentation data, and

6 wherein the link means judges that the specified set  
7 of presentation data and the presented set of presentation  
8 data are included in the same group if the specified set of  
9 presentation data and the presented set of presentation data  
10 are included in a same component.

1 5. The digital broadcast receiving device of Claim 3,

2 wherein the broadcast wave is composed of a plurality  
3 of components, and at least two components out of the  
4 plurality of components each include a plurality of sets of  
5 reception data, each set of reception data containing a  
6 plurality of sets of presentation data, and

7 wherein the link means judges that the specified set  
8 of presentation data and the presented set of presentation  
9 data are included in the same group if the specified set of  
10 presentation data and the presented set of presentation data  
11 are included in a same set of reception data.

1 6. The digital broadcast receiving device of Claim 3,

2 wherein the broadcast wave is composed of a plurality  
3 of components, and at least two components out of the  
4 plurality of components each include a plurality of sets of  
5 reception data, each set of reception data containing a  
6 plurality of sets of presentation data,

7 wherein the link means judges that the specified set  
8 of presentation data and the presented set of presentation

9 data are included in the same group if the specified set of  
10 presentation data is same as the presented set of  
11 presentation data.

1 7. The digital broadcast receiving device of Claim 2,  
2 wherein the interactive data contains (a) a plurality  
3 of sets of presentation data, (b) link information which  
4 associates each of the plurality of sets of presentation data  
5 with a link to a set of presentation data, and (c) a script  
6 that contains a procedure to restrict use of the interactive  
7 data,

8 wherein the restricting means restricts the use of  
9 the interactive data by analyzing and executing the script.

1 8. The digital broadcast receiving device of Claim 7,  
2 wherein the script also contains a first description  
3 that describes a prohibition of a link operation designated  
4 by a user, the prohibition being made if either the preview  
5 state or the prohibited state is judged as being established,  
6 and a second description that describes a permission to  
7 perform the designated link operation if the permitted state  
8 is judged as being established,

9 wherein one of the plurality of sets of presentation  
10 data is currently presented,

11 wherein the restricting means includes:

12 user operation receiving means for receiving a user  
13 operation that designates the link operation;

14 script executing means for (a) analyzing the script,  
15 (b) restricting the designated link operation on recognizing  
16 the first description in the script if either the preview  
17 state or the prohibited state is judged as being established,  
18 and (c) obtaining a set of presentation data which is a link  
19 destination of the designated link operation on recognizing  
20 the second description if the permitted state is judged as  
21 being established; and

22 presenting means for presenting the obtained set of  
23 presentation data.

1 9. The digital broadcast receiving device of Claim 8,  
2 wherein the second description also describes a  
3 presentation of a message relating to the prohibition of the  
4 link operation and

5 wherein on recognizing the message in the script, the  
6 script executing means presents the message.

1 10. The digital broadcast receiving device of Claim 2,  
2 wherein the interactive data contains (a) a plurality  
3 of sets of presentation data, (b) link information which  
4 associates each of the plurality of sets of presentation data  
5 with a link to a set of presentation data, and (c) a viewing  
6 enabled signal indicating either a viewing permission or a  
7 preview permission,

8 wherein one of the plurality of sets of presentation  
9 data is currently presented,

10            wherein the restricting means includes:  
11            user operation receiving means for receiving a user  
12 operation that designates a link operation;  
13            link means for obtaining a set of presentation data  
14 which is a link destination of the designated link operation  
15 if either a first condition or a second condition is  
16 fulfilled, and for restricting use of interactive data  
17 relating to the received user operation if neither the first  
18 condition nor the second condition is fulfilled,  
19            wherein in the first condition, the viewing enabled  
20 signal indicates the preview permission, and the preview  
21 state is judged as being established, and  
22            wherein in the second condition, the viewing enabled  
23 signal indicates the viewing permission, and the permitted  
24 state is judged as being established; and  
25            presenting means for presenting the obtained set of  
26 presentation data.

1    11.    The digital broadcast receiving device of Claim 2,  
2            wherein the interactive data contains (a) a plurality  
3 of sets of presentation data, and (b) link information which  
4 associates each of the plurality of sets of presentation data  
5 with a link to a set of presentation data,  
6            wherein one of the plurality of sets of presentation  
7 data is currently presented,  
8            wherein the restricting means includes:  
9            user operation receiving means for receiving a user

10 operation;

11 counting means for counting a number of user  
12 operations that have been received;

13 link means for restricting use of interactive data  
14 relating to the received user operation when the counted  
15 number reaches a predetermine number and either the preview  
16 state or the prohibited state is judged as being established.

1 12. The digital broadcast receiving device of Claim 2,

2 wherein the interactive data contains (a) a plurality  
3 of sets of presentation data, and (b) link information which  
4 associates each of the plurality of sets of presentation data  
5 with a link to a set of presentation data,

6 wherein one of the plurality of sets of presentation  
7 data is currently presented,

8 wherein the restricting means includes:

9 user operation receiving means for receiving a user  
10 operation that designates a link operation;

11 link means for restricting use of interactive data  
12 relating to the received user operation if either the preview  
13 state or the prohibited state is judged as being  
14 established, and for obtaining a set of presentation data  
15 which is a link destination of the designated link operation  
16 if the permitted state is judged as being established; and

17 presenting means for presenting the obtained set of  
18 presentation data.



1 13. The digital broadcast receiving device of Claim 12,  
2 wherein the link means also places a restriction on  
3 obtainment of the set of presentation data that is the link  
4 destination if either the preview state or the prohibited  
5 state is judged as being established.

1 14. A digital broadcast system, comprising:

2 a digital broadcast sending device that broadcasts a  
3 broadcast wave containing interactive data, the interactive  
4 data being repeatedly broadcasted; and

5 a digital broadcast receiving device that receives  
6 the broadcast wave to achieve pseudo-interactive  
7 communications, the interactive data being repeatedly  
8 broadcasted,

9 wherein the digital broadcast receiving device  
10 includes:

11 receiving means for receiving the broadcast wave;

12 judging means for judging a state that is established  
13 during the reception of the broadcast wave based on first  
14 information, the state being one of a preview state, a  
15 prohibited state, and a permitted state,

16 wherein the first information shows conditions for  
17 using the received broadcast wave under a subscription  
18 contract,

19 wherein in the preview state, the received broadcast  
20 wave is permitted to be used regardless of the subscription  
21 contract being made, and

22            wherein in the prohibited state, the broadcast wave  
23 is prohibited from being used because the subscription  
24 contract is not made; and

25            restricting means for restricting use of the  
26 interactive data when either the preview state or the  
27 prohibited state is judged as being established.

1        15.    A receiving method used by a digital broadcast  
2 receiving device, which receives a broadcast wave including  
3 interactive data to achieve pseudo-interactive  
4 communications, the interactive data being repeatedly  
5 broadcasted, the receiving method including:

6            a receiving step for receiving the broadcast wave;  
7            a judging step for judging a state that is  
8 established during the reception of the broadcast wave based  
9 on first information, the state being one of a preview state,  
10 a prohibited state, and a permitted state,

11           wherein the first information shows conditions for  
12 using the received broadcast wave under a subscription  
13 contract,

14           wherein in the preview state, the received broadcast  
15 wave is permitted to be used regardless of the subscription  
16 contract being made, and

17           wherein in the prohibited state, the broadcast wave  
18 is prohibited from being used because the subscription  
19 contract is not made; and

20 a restricting step for restricting use of the  
21 interactive data when either the preview state or the  
22 prohibited state is judged as being established.

1 16. A computer-readable recording medium storing a program  
2 used by a digital broadcast receiving device, which receives  
3 a broadcast wave including interactive data to achieve  
4 pseudo-interactive communications, the interactive data being  
5 repeatedly broadcasted, the program including:

6 a receiving step for receiving the broadcast wave;  
7 a judging step for judging a state that is  
8 established during the reception of the broadcast wave based  
9 on first information, the state being one of a preview state,  
10 a prohibited state, and a permitted state,

11 wherein the first information shows conditions for  
12 using the received broadcast wave under a subscription  
13 contract,

14 wherein in the preview state, the received broadcast  
15 wave is permitted to be used regardless of the subscription  
16 contract being made, and

17 wherein in the prohibited state, the broadcast wave  
18 is prohibited from being used because the subscription  
19 contract is not made; and

20 a restricting step for restricting use of the  
21 interactive data when either the preview state or the  
22 prohibited state is judged as being established.